Performance Data Sheet

RKA5510EXD

General Information

Model	RKA5510EXD	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	3860	3630					
	Watts	449	492					
	Amps	1.81	2.00					
	Lb/h	49.7	48.6					
-10	Btu/h	4270	4010	3760				
	Watts	461	506	552				
	Amps	1.86	2.08	2.30				
	Lb/h	54.6	53.4	52.3				
-5	Btu/h	4750	4470	4190	3930			
	Watts	472	521	569	619			
	Amps	1.92	2.15	2.38	2.63			
	Lb/h	60.4	59.1	57.9	56.7			
0	Btu/h	5310	5000	4700	4400	4120		
	Watts	483	534	586	639	693		
	Amps	1.97	2.22	2.47	2.73	3.00		
	Lb/h	67.1	65.7	64.3	63.0	61.8		
5	Btu/h	5940	5600	5270	4950	4630		
	Watts	494	548	603	659	716		
	Amps	2.03	2.29	2.55	2.83	3.11		
	Lb/h	74.6	73.1	71.7	70.2	68.9		
10	Btu/h	6650	6280	5920	5560	5210	4870	4540
	Watts	506	562	619	678	739	801	865
	Amps	2.08	2.35	2.64	2.93	3.23	3.54	3.86
	Lb/h	83.0	81.4	79.9	78.3	76.8	75.4	74.1
15	Btu/h	7430	7030	6630	6240	5860	5480	5110
	Watts	517	575	635	697	760	826	895
	Amps	2.14	2.42	2.72	3.02	3.33	3.66	4.00
	Lb/h	92.2	90.6	89.0	87.3	85.7	84.1	82.6
20	Btu/h	8290	7850	7420	6990	6570	6150	5740
	Watts	529	588	650	715	781	851	923
	Amps	2.19	2.49	2.80	3.11	3.44	3.78	4.13
	Lb/h	102	101	98.8	97.1	95.4	93.7	92.1

25	Btu/h	9220	8750	8280	7810	7350	6890	6440
	Watts	540	601	665	732	802	875	951
	Amps	2.25	2.56	2.87	3.20	3.54	3.89	4.25
	Lb/h	113	111	110	108	106	104	102
30	Btu/h	10200	9720	9210	8710	8200	7700	7200
	Watts	552	614	680	749	821	897	977
	Amps	2.30	2.62	2.95	3.29	3.64	4.00	4.37
	Lb/h	125	123	121	119	117	115	114
35	Btu/h	11300	10800	10200	9660	9110	8570	8020
	Watts	564	628	695	766	840	919	1000
	Amps	2.36	2.69	3.02	3.37	3.73	4.10	4.49
	Lb/h	137	135	133	132	130	128	126
40	Btu/h	12500	11900	11300	10700	10100	9500	8900
	Watts	576	641	709	782	859	940	1030
	Amps	2.41	2.75	3.10	3.45	3.82	4.20	4.60
	Lb/h	150	148	147	145	143	141	138
45	Btu/h	13700	13100	12400	11800	11100	10500	9850
	Watts	589	654	723	797	876	960	1050
	Amps	2.47	2.81	3.17	3.53	3.91	4.30	4.70
	Lb/h	164	162	160	158	156	154	152
50	Btu/h	15000	14300	13600	13000	12300	11600	10900
	Watts	601	667	737	813	893	979	1070
	Amps	2.52	2.88	3.24	3.61	3.99	4.39	4.80
	Lb/h	179	177	175	173	171	169	167
55	Btu/h	16400	15700	14900	14200	13400	12700	11900
	Watts	615	680	751	828	910	998	1090
	Amps	2.58	2.94	3.30	3.68	4.07	4.48	4.90
	Lb/h	194	192	190	188	186	184	182

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	7.985683E+03	8.381686E+01	1.022111E-01	7.477657E+01
C2	1.519331E+02	1.393257E+00	-1.047909E-02	1.450858E+00
C3	-3.479183E+01	4.967952E+00	2.371586E-02	-2.372135E-02
C4	1.814075E+00	3.497473E-02	1.347990E-04	1.539063E-02
C5	-2.958730E-01	-2.402892E-02	2.468029E-04	9.039381E-04
C6	5.130885E-03	-8.911585E-04	-2.106738E-05	-1.310903E-03
C7	-2.142640E-04	3.998510E-05	-5.140394E-08	-1.868444E-05
C8	-3.772863E-03	-4.336286E-04	-1.642768E-06	2.193931E-05
C9	-1.472740E-03	4.348088E-04	2.763858E-07	-1.599266E-05
C10	1.382144E-04	1.469994E-05	2.059678E-07	5.042334E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature